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Reference Desk



State University of New York

COLLEGE FOR TEACHERS
at BUFFALO

BULLETIN

1956-1957

Extension Graduate Catalog

STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises twenty-one colleges and six institutes. There are, in addition, eleven community colleges which it supervises. While separated geographically, all are united in the purpose to improve and extend opportunities for youth to continue their education after high school.

State University offers cultural and professional four-year programs in liberal arts, home economics, industrial and labor relations, veterinary medicine, ceramics, agricultural, forestry, maritime service, medicine and teacher preparation, as well as two-year programs in a wide variety of fields, including technical courses in agriculture, industrial, health, and service areas. State University is accredited by the Middle States Association of Colleges and Secondary Schools.

Governed by a Board of Trustees appointed by the Governor, State University of New York plans for the total development of State-supported higher education. Each unit of State University is locally administered, and students apply directly to the institution for admission.

Although State University of New York is the second largest state university in the country, its students have the additional advantages of attending small colleges.

The State University motto is: "Let Each Become All He Is Capable Of Being."

STATE UNIVERSITY OF NEW YORK

COLLEGE FOR TEACHERS AT BUFFALO

BULLETIN

August 1956

EXTENSION--GRADUATE CATALOG 1956--1957

GRADUATE DIVISION and UNDERGRADUATE CLASSES

STATE UNIVERSITY COLLEGE FOR TEACHERS BULLETIN
VOLUME XXIV NUMBER 4

One of Four Publications Issued Four Times Yearly: March, April, August, and October by State University College for Teachers, Buffalo 22, N. Y.

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Director of Graduate Division
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MORTON R. LANE, B.S.Financial Secretary

ON-CAMPUS EXTENSION CLASSES

Saturday — Tuesday — Wednesday

CALENDAR 1956-57

First Semester:

Saturday, September 15 — Registration for all classes (Saturday — Tuesday — Wednesday)
Saturday, September 22 — Last day for registration and payment of fees.
Saturday, November 24 — Thanksgiving recess.
Saturday, December 22 — through Saturday, December 29, Christmas recess.
Saturday, January 5 — Classes resume.
Saturday, January 19 — Final examinations.

Second Semester:

Saturday, February 2 — Registration for all classes, (Saturday — Tuesday — Wednesday)
Saturday, February 9 — Last day for registration and payment of fees.
Saturday, April 20 — through Saturday, April 27 Easter recess.
Saturday, May 4 — Classes resume.
Saturday, June 1 — Final examinations.

Commencement

Sunday, June 9 — Baccalaureate 4 P.M.
Monday, June 10 — Commencement 10 A.M.

REGISTRATION FEES

On-Campus and Off-Campus Courses

All Undergraduate Extension fees \$10.00 per credit hour
All Graduate Extension fees \$12.50 per credit hour
Fees for both On-Campus and Off-Campus courses are payable at registration. No refunds made unless course is discontinued.

Faculty members have been instructed to require receipt for payment of fees or veterans authorization slip and class enrollment card from students before completing class registration. No student will be admitted after the second class session until these conditions are fulfilled.

GENERAL INFORMATION

1. Teachers in service and properly qualified undergraduates will be admitted to Extension courses.
2. A student wishing to become a candidate for a degree should secure an evaluation of his academic record and proposed program from the Registrar to assure proper accrediting and satisfactory course selection.
3. Credit granted for the completion of any course is subject to the approval of the Registrar when applied to the specific program of any student.
4. Extension credit is transferable to other academic institutions in accordance with the regulations of the individual college or university concerned.
5. Off-Campus courses will be organized in convenient centers when requests are sufficient to establish them. Teacher groups interested in such courses should inform the Director of Extension as soon as possible.
6. A minimum registration of twenty students will be required for the continuance of any proposed Extension class.*
7. Graduates of a three-year curriculum in another college should note that off-campus courses are not acceptable as part of the one year residence requirement for the Bachelor of Science degree from this college. In this case all fourth year credit must be earned on campus in Summer Session or Extension courses.

8. Graduates of a two or three-year curriculum in this college must register for the last sixteen hours of the fourth year in on-campus Summer Session or Extension courses.
9. An application for graduation is required of each student of all divisions who will complete the requirement for the Bachelor of Science or Master of Science degree. This application must be filed with the Registrar before November 1 if graduation is expected in January or June of the academic year; it must be filed before the close of Summer Session if requirements are to be completed by that time. The College assumes no responsibility for the graduation of students who omit this application procedure.
10. The right is reserved to make any necessary alterations in the course offerings listed in this catalog without notice.
11. Any students who have questions relative to courses, requirements or other matters pertaining to Extension work, should write to R. E. Albright, Director of Extension, State University College for Teachers, Buffalo 22, N. Y.

* Exceptions will be made in some cases essential for meeting graduation requirements.

REGISTRATION PROCEDURES

FIRST SEMESTER

Saturday, September 15 Registration Day
All On-Campus Extension Classes
Saturday—Tuesday—Wednesday

8:45-9:15 A.M. Secure instruction sheet in foyer of Administration Building.

Graduate students follow directions as indicated.

Undergraduate students attend Assembly in Room Ad. 200 to receive announcements and to check enrollment of classes to be offered. (Absence from this Assembly may cause the discontinuance of the class you wanted due to insufficient registration.)

9:15-11:00 A.M. Registration and payment of fees* for all On-Campus Courses. (Saturday—Tuesday—Wednesday).

11:00-11:55 A.M. First hour Saturday classes meet.

12:00-12:55 P.M. Second hour Saturday classes meet.

SECOND SEMESTER

Saturday, February 2 Registration Day
All On-Campus Extension Classes
Saturday—Tuesday—Wednesday

8:45-9:15 A.M. Secure instruction sheet in foyer of Administration Building.

Graduate students follow directions as indicated.

Undergraduate students attend Assembly in Room Ad. 200 to receive announcements and to check enrollment of classes to be offered. (Absence from this Assembly may cause the discontinuance of the class you wanted due to insufficient registration.)

9:15-11:00 A.M. Registration and payment of fees* for all On-Campus Courses. (Saturday—Tuesday—Wednesday).

11:00-11:55 A.M. First hour Saturday Classes meet.

12:00-12:55 P.M. Second hour Saturday Classes meet.

* Pay no fees until classes desired are assured of continuance — no refunds can be made this year.

GRADUATE DIVISION — EXTENSION SESSION

1956 — 1957

Graduate Curricula

Graduate courses lead to the Master of Science degree with majors in Art Education, Early Secondary Education, Elementary Education, Exceptional Children Education, Home Economics Education, Industrial Arts Education.

Graduate work limited to Summer Session and Extension Classes

At present no graduate work is offered during the Regular Session. Graduate schedules will be planned so that requirements for the Master of Science degree may be completed by attendance at five Summer Sessions. This time may be shortened by registration in Extension Classes.

Admission Requirements

Applicants meeting the following requirements are eligible for admission to the Graduate Division:

A. An acceptable academic and teaching record. An applicant must be able to present an undergraduate scholastic average of 2.3 or higher, an acceptable teaching record testified by a confidential statement from the administrator of the school wherein employed, and recommendations concerning academic and personal qualifications supplied by three persons in a position to make valid statements.

B. One of the following:

1. An approved Bachelor's Degree and eligibility to teach in the elementary school or in a field of specialization in New York State.

An *approved* Bachelor's Degree is one granted by a teachers college, liberal arts college, or university which is accredited by the American Association of Colleges for Teacher Education, an appropriate regional accrediting agency, a State Board of Education, or a State University.

2. An approved Bachelor's Degree and a desire to become certified to teach in New York State under the requirements of the Office of Teacher Certification

3. An approved Bachelor's Degree and a teaching certificate from another state. Completion of the Master's Degree requirements does not guarantee New York State certification. Applicants interested in New York State certification should secure an evaluation of credit and a statement of prescribed work necessary from the Office of Teacher Certification, State Education Department, Albany 1, New York.

Admission Procedures

A. Complete admission blank available from Director of Graduate Division with data required.

B. Return blank before May 1, for registration in Summer Session, before September 1st for registration in first semester, and before January 1st for registration in second semester Extension program.

C. Provide official transcript from college which granted degree, (not necessary for graduates of this college).

Admission to Candidacy

Filing an application for admission to candidacy is the personal responsibility of each student after he has completed a minimum of six hours. At the completion of twelve semester hours of graduate work he *must* apply for candidacy *or* file with the Director of the Graduate Division a statement that he does not intend to become a candidate for a degree. If subsequently he decides to file for candidacy, he must at that time have an evaluation made of all work completed for the purpose of formulating a program leading to the Master's degree.

Admission to Candidacy Depends Upon:

A. A cumulative average of B *or better* in courses presented for graduate credit. No work of D grade will be accepted.

B. A recommendation from the adviser of the candidate, the Director of the division, or (in the case of Elementary Education students) the Director of the Graduate Division.

C. A comprehensive written examination may be required by the Graduate Council upon the recommendation of the student's adviser or Director of the division in which application is made.

Requirements for Master of Science Degree

A. Completion of thirty-two semester hour program of graduate courses.

A limited amount of transfer credits can be accepted for courses taken at another college:

1. If they are evaluated as being equal in scope and content to those offered by this college.
2. If they form a coherent part of the required program of study.
3. If they have been completed within seven years prior to registration at this college.

B. Completion of residence requirements. A course shall satisfy the requirements for residence if it is offered on the Campus, within the city of Buffalo, at a College Camp, or at a branch established by the College.

1. For graduates of this college — a minimum of twenty hours *in-residence* out of the total thirty-two.
2. For graduates of another college — a minimum of twenty-four credit hours *in-residence* out of the total thirty-two.

C. Completion of all course work within six years of registration in first course. Five summer sessions of six weeks each is regarded the usual period of attendance. However, this time may be shortened by registration in Evening and Saturday Extension Classes.

1. Students holding full-time teaching positions are limited to a maximum of four credits per semester or eight per academic year in Extension Classes. No credit will be given for work taken beyond this maximum at this college or elsewhere.
2. In summer session students are permitted to earn a maximum of two credits for a two-weeks program, six credits for a six-week program, and eight credits for an eight-weeks program.

Special Students

Students not intending to apply for admission to candidacy may receive permission to register for courses in the Graduate Division.

Registration Fees

Graduate Division fees are \$12.50 per credit hour.

GRADUATE CURRICULA

ART EDUCATION

Total requirements 32 Semester Hours

COURSES IN TECHNICAL AND RELATED FIELDS .. 20-23 SEM. HRS.

Technical Courses:

Art 501	Workshop in Art Education Materials, Processes, and Procedures	3 Sem. Hrs.
Art 503	Workshop in Using the Visual Language	3 Sem. Hrs.
Art 506	Seminar in Contemporary Art	2 Sem. Hrs.
Art 507	Graduate Studio in Drawing and Painting ..	2-6 Sem. Hrs.
Art 508	Graduate Studio in Design and Spatial Organization	2-6 Sem. Hrs.
Art 509	Graduate Studio in Crafts	2-6 Sem. Hrs.
Art 510	Graduate Studio in Photography	3 Sem. Hrs.
Art 512	Graduate Studio in Sculpture	3 Sem. Hrs.
Art 513	Graduate Studio in Graphic Arts	3 Sem. Hrs.
Art 520	Art Camp	2 Sem. Hrs.
Art 526	Special Study	2-4 Sem. Hrs.
	Graduate Courses in the Practical Arts	2-6 Sem. Hrs.

Courses in Related Fields:

Art 502	Art Education Today	3 Sem. Hrs.
Art 504	Seminar in Art in Human Affairs	2 Sem. Hrs.
Art 505	Seminar in Art Education	3 Sem. Hrs.
Art 514	Workshop in Folk Arts	2 Sem. Hrs.
Art 526	Special Study	2-4 Sem. Hrs.
	Graduate Courses in Psychology and Education	2-6 Sem. Hrs.

Research:

Ed. 575	Research Techniques	2 Sem. Hrs.
Art 550	Project	4 Sem. Hrs.
Art 525	Master's Thesis	6 Sem. Hrs.
(Each candidate, after a conference with his adviser, may select one of the above requirements. Credit may be applied to the technical or related area, or may be divided between them depending upon the nature of the work done.)		

ELECTIVES IN ARTS AND SCIENCES

Graduate courses in Music, English, Social Studies, Science, and Mathematics. By advisement.

EARLY SECONDARY EDUCATION

The College, responding to the growing demand for teachers in the seventh, eighth, and ninth grades, has developed a program which enables the holder of a Bachelor's degree earned before 1958 and an

elementary teaching certificate to extend the validity of such certificate to include teaching in the early secondary (junior high) schools of New York State.

The completion of two courses in one summer session, (one in Early Secondary School Education and one in the subject matter field of specialization), will entitle the elementary teacher to a one-year certificate to teach in the early secondary grades. This certification will be renewed from year to year by continued summer session and extension study, and teaching in the early secondary (junior high school) grades. The permanent form of early secondary certification will be granted upon the completion of thirty semester hours in this graduate program and evidence of satisfactory teaching experience at the early secondary grade level.

A teacher preparing for early secondary (junior high) school teaching who wishes also to become a candidate for the Master of Science degree must complete *thirty-two* semester hours of graduate work. Admission, candidacy, and Master's degree requirements will be found under Graduate Program in this bulletin.

Preparation for teaching in the early secondary grades is offered in four subject matter fields:

ENGLISH, MATHEMATICS, SCIENCE, SOCIAL STUDIES.

THE TEACHING OF ENGLISH IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

PREREQUISITES 21 SEM. HRS.

Written Composition 6 Sem. Hrs.
Speech 6 Sem. Hrs.
Literature (English, American, Contemporary) 9 Sem. Hrs.

THE GRADUATE PROGRAM 30-32 SEM. HRS*

Required Courses: (by advisement) within the area of specialization: 12 Sem. Hrs.

3 hour course in English Literature to be chosen from:
Eng. 504, 505, 509, 511A, 511B, 520, 521, 523.

3 hour course in American Literature to be chosen from:
Eng. 503, 510, 518, 519, 522, 524.

3 hour course in general literature to be chosen from:
Eng. 506, 508, 512, 515.

3 hour course in language to be chosen from:
Eng. 500, 526.

Elective Courses: (by advisement) within the area of specialization or other academic fields: 9-10 Sem. Hrs.

Professional Courses: 8-11 Sem. Hrs.

Required courses: Ed. 532; (by advisement) Ed. 529, 536.

Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.

Ed. 550 Project 4 Sem. Hrs.

Ed. 525 Master's Thesis 5 Sem. Hrs.

*30 semester hours for certification; 32 semester hours for the Master's degree.

THE TEACHING OF MATHEMATICS IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

PREREQUISITES 12 SEM. HRS.

Twelve or more semester hours of undergraduate mathematics (chosen by advisement) from the following:

General Mathematics, College Algebra, Plane Trigonometry, Plane Analytic Geometry, Differential Calculus, Integral Calculus.

THE GRADUATE PROGRAM 30-32 SEM. HRS*

Required courses: within the area of specialization,

Math. 503, 504, 505, 506 12 Sem. Hrs.

Elective courses: (by advisement) in the area of

specialization or other academic field 9-10 Sem. Hrs.

Professional Courses: 8-11 Sem. Hrs.

Required Courses: Ed. 532; (by advisement) Ed. 529, 536.

Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.

Ed. 550 Project 4 Sem. Hrs.

Ed. 525 Master's Thesis 5 Sem. Hrs.

*30 semester hours for certification; 32 semester hours for the Master's degree.

THE TEACHING OF SCIENCE IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

PREREQUISITES 24 SEM. HRS.

Earth Science 6 Sem. Hrs.

Biology 6 Sem. Hrs.

Physics 6 Sem. Hrs.

Chemistry 6 Sem. Hrs.

THE GRADUATE PROGRAM 30-32 SEM. HRS*

Required courses within the area of specialization

Sci. 501, 518 3-6 Sem. Hrs.

Elective Courses (by advisement) to be chosen from:

Sci. 502, 503, 504, 505, 523, 527, 528 6-9 Sem. Hrs.

Elective Courses (by advisement) within the area of specialization or other academic fields: 9-10 Sem. Hrs.

Professional Courses: 8-11 Sem. Hrs.

Required Courses: Ed. 532; (by advisement) Ed. 529, 536.

Elective Courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575	Research Methods and Techniques	2-3 Sem. Hrs.
Ed. 550	Project	4 Sem. Hrs.
Ed. 525	Master's Thesis	5 Sem. Hrs.

*30 semester hours for certification; 32 semester hours for the Master's degree.

THE TEACHING OF SOCIAL STUDIES IN EARLY SECONDARY (JUNIOR HIGH) SCHOOL

PREREQUISITES	21 SEM. HRS.
American History	6 Sem. Hrs.
European History	6 Sem. Hrs.
Geography	3 Sem. Hrs.
Political Science	Minimum of 2 hrs. each in 2 fields.
Economics	
Sociology	
	6 Sem. Hrs.
(Substitution may be made for individual requirements provided the deficiency is corrected on the graduate level.)	

THE GRADUATE PROGRAM	30-32 SEM. HRS*
<i>Required Courses:</i> (by advisement) within the area of specialization:	
	12 Sem. Hrs.

a. In related fields:

Political Science such as: S.S. 503, 519	Minimum of 2 hours each in 2 fields.
Economics such as: S.S. 505	
Sociology such as: S.S. 506, 521	
	6 Sem. Hrs.

(If this requirement has been met by electives on the undergraduate level the student may substitute Social Studies *graduate* electives.)

b. Concentration in 1 of 3 areas

Community and New York State Studies such as: S.S. 506, 507, 509, 510, 519.	6 Sem. Hrs.
American Studies such as: S.S. 500, 502, 504, 512, 513, 515, 521.	
World Studies such as: S.S. 501A, 501B, 508, 511, 516, 518; Geog. 500, 501.	

Elective Courses: (by advisement) within the area of specialization or other academic fields

	9-10 Sem. Hrs.
<i>Professional Courses:</i>	8-11 Sem. Hrs.
Required courses: Ed. 532, (by advisement) Ed. 529, 536.	
Elective courses: Ed. 506, 519, 523, 533, 537, 538, 541, 542.	

Research: Required of all students who are candidates for the Master's degree, (2-5 Sem. Hrs.). Each candidate, after conference with his adviser, may select *one* of the following requirements in research:

Ed. 575	Research Methods and Techniques	2-3 Sem. Hrs.
Ed. 550	Project	4 Sem. Hrs.
Ed. 525	Master's Thesis	5 Sem. Hrs.

*30 semester hours for certification; 32 semester hours for the Master's degree.

ELEMENTARY EDUCATION

Total requirements 32 semester hours

REQUIRED PROFESSIONAL COURSES	9 SEM. HRS.
El. Ed. 500 Workshop in Elementary Education	6 Sem. Hrs.
El. Ed. 501 Seminar in Elementary Education	3 Sem. Hrs.
REQUIRED COURSES IN ARTS AND SCIENCES	12 SEM. HRS.
English and/or Social Studies	6 Sem. Hrs.
Academic Electives	6 Sem. Hrs.
RESEARCH	2-6 SEM. HRS.
Ed. 575 Research Techniques	2 Sem. Hrs.
El. Ed. 550 Project	4 Sem. Hrs.
El. Ed. 525 Thesis	6 Sem. Hrs.
(Each candidate, after a conference with his adviser, may select one of the above requirements.)	
UNRESTRICTED ELECTIVES	5-9 SEM. HRS.
Maximum of 16 hours in education courses permitted including research, project, or thesis.	

ELEMENTARY PRINCIPALSHIP AND/OR SUPERVISION

Total requirements 32 Semester Hours

Experienced teachers desiring the elementary school principal's provisional certificate should complete the bachelor's degree and six semester hours in El. Ed. 503 and 504. Candidates for the permanent certificate must complete the bachelor's degree and thirty hours in approved graduate courses including, in addition to El. Ed. 503 and 504, two to four hours in El. Ed. 507 and 520.

Experienced teachers desiring the elementary school supervisor's provisional certificate should complete the bachelor's degree and six semester hours in El. Ed. 530 and 531. Candidates for the permanent certificate must complete an additional twenty-four semester hours in approved graduate courses, six of which should be in the area of elementary school supervision.

REQUIRED PROFESSIONAL COURSES	12 SEM. HRS.
El. Ed. 500 Workshop in Elementary Education	6 Sem. Hrs.
El. Ed. 503 Organization of the Elementary School	3 Sem. Hrs.
El. Ed. 504 Administration of the Elementary School	3 Sem. Hrs.
or	
El. Ed. 530 Principles of Supervision	3 Sem. Hrs.
El. Ed. 531 Supervision of Teaching	3 Sem. Hrs.
REQUIRED COURSES IN ARTS AND SCIENCES	8-10 SEM. HRS.
English and/or Social Studies	6 Sem. Hrs.
Academic Electives	2-4 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
 Ed. 550 Research Project 4 Sem. Hrs.
 Ed. 525 Master's Thesis 6 Sem. Hrs.
 (Each candidate, after conference with his adviser, may select one
 of the above requirements.)
 UNRESTRICTED ELECTIVES 4-10 SEM. HRS.

EXCEPTIONAL CHILDREN EDUCATION MENTAL RETARDATION

Total requirements 32 Semester Hours

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 SEM. HRS.
 By advisement, from the following:

Ex. Ed. 527 Guidance of Children who are Exceptional 2 Sem. Hrs.
 Ex. Ed. 535 Mental Measurement 2 Sem. Hrs.
 Ex. Ed. 538 Understanding the Problem Child in the
 Classroom 2 Sem. Hrs.
 Ex. Ed. 551 Practicum in Education of Children with Mental
 Retardation 4 Sem. Hrs.
 Ex. Ed. 561 Occupational Education for Children with Mental
 Retardation 2 Sem. Hrs.
 Ex. Ed. 571 Occupational Skills for Children with Mental
 Retardation 2 Sem. Hrs.
 Ex. Ed. 591 Nature and Needs of Children who Present
 Exceptional Problems of Learning 2 Sem. Hrs.

REQUIRED COURSES IN ARTS AND SCIENCES 12 SEM. HRS.
 English and/or Social Studies 6 Sem. Hrs.
 Academic Electives 6 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
 El. Ed. 550 Research Project 4 Sem. Hrs.
 El. Ed. 525 Master's Thesis 6 Sem. Hrs.
 (Each candidate, after conference with his adviser, may select one
 of the above requirements.)

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

EXCEPTIONAL CHILDREN EDUCATION ORTHOPEDIC HANDICAP

Total requirements 32 Semester Hours

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 SEM. HRS.
 By advisement, from the following:

Ex. Ed. 502 Workshop in the Education of Children with
 Orthopedic Handicap 6 Sem. Hrs.
 Ex. Ed. 512 Seminar in Education of Children with
 Orthopedic Handicap 2 Sem. Hrs.
 Ex. Ed. 527 Guidance of Children who are Exceptional 2 Sem. Hrs.

Ex. Ed. 538 Understanding the Problem Child in the
 Classroom 2 Sem. Hrs.
 Ex. Ed. 591 Nature and Needs of Children who Present
 Exceptional Problems of Learning 2 Sem. Hrs.

REQUIRED COURSES IN ARTS AND SCIENCES 12 SEM. HRS.
 English and/or Social Studies 6 Sem. Hrs.
 Academic Electives 6 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
 El. Ed. 550 Research Project 4 Sem. Hrs.
 El. Ed. 525 Master's Thesis 6 Sem. Hrs.
 (Each candidate, after conference with his adviser, may select one
 of the above requirements.)

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

EXCEPTIONAL CHILDREN EDUCATION SPEECH IMPAIRMENT

Total requirements 32 Semester Hours

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION 12 SEM. HRS.
 By advisement, from the following:

Ex. Ed. 503 Clinical Procedures in Speech Correction .. 3 Sem. Hrs.
 Ex. Ed. 513 Seminar in Speech Science 3 Sem. Hrs.
 Ex. Ed. 520 Speech Correction for Elementary
 School Teachers 2 Sem. Hrs.
 Ex. Ed. 523 Applied Phonetics 2 Sem. Hrs.
 Ex. Ed. 524 Introduction to Audiology 2 Sem. Hrs.
 Ex. Ed. 527 Guidance of Children who are Exceptional 2 Sem. Hrs.
 Ex. Ed. 533 Seminar in Speech Pathology 2 Sem. Hrs.
 Ex. Ed. 538 Understanding the Problem Child in the
 Classroom 2 Sem. Hrs.
 Ex. Ed. 591 Nature and Needs of Children who Present
 Exceptional Problems of Learning 2 Sem. Hrs.

REQUIRED COURSES IN ARTS AND SCIENCES 12 SEM. HRS.
 English and/or Social Studies 6 Sem. Hrs.
 Academic Electives 6 Sem. Hrs.

RESEARCH 2-6 SEM. HRS.
 Ed. 575 Research Methods and Techniques 2-3 Sem. Hrs.
 El. Ed. 550 Research Project 4 Sem. Hrs.
 El. Ed. 525 Master's Thesis 6 Sem. Hrs.
 (Each candidate, after conference with his adviser, may select one
 of the above requirements.)

UNRESTRICTED ELECTIVES 5-9 SEM. HRS.

EXCEPTIONAL CHILDREN EDUCATION VISUAL IMPAIRMENT

Total requirements 32 Semester Hours

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION	12 SEM. HRS.
Ex. Ed. 527 Guidance of Children who are Exceptional	2 Sem. Hrs.
Ex. Ed. 532 Workshop in Education of Children with Visual Handicap	6 Sem. Hrs.
Ex. Ed. 538 Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex. Ed. 591 Nature and Needs of Children who Present Exceptional Problems of Learning	2 Sem. Hrs.
REQUIRED COURSES IN ARTS AND SCIENCES	12 SEM. HRS.
English and/or Social Studies	6 Sem. Hrs.
Academic Electives	6 Sem. Hrs.
RESEARCH	2-6 SEM. HRS.
Ed. 575 Research Methods and Techniques	2-3 Sem. Hrs.
El. Ed. 550 Research Project	4 Sem. Hrs.
El. Ed. 525 Master's Thesis	6 Sem. Hrs.
(Each candidate, after conference with his adviser, may select one of the above requirements.)	
UNRESTRICTED ELECTIVES	5-9 SEM. HRS.

EXCEPTIONAL CHILDREN EDUCATION HEARING IMPAIRMENT

Total requirements 32 Semester Hours

REQUIRED COURSES IN THE FIELD OF SPECIALIZATION	12 SEM. HRS.
Ex. Ed. 506 Workshop in Education of Children with Hearing Impairment	6 Sem. Hrs.
Ex. Ed. 524 Introduction to Audiology	2 Sem. Hrs.
Ex. Ed. 527 Guidance of Children who are Exceptional	2 Sem. Hrs.
Ex. Ed. 538 Understanding the Problem Child in the Classroom	2 Sem. Hrs.
Ex. Ed. 542 Speech Reading	2 Sem. Hrs.
Ex. Ed. 591 Nature and Needs of Children who Present Exceptional Problems of Learning	2 Sem. Hrs.
English and/or Social Studies	6 Sem. Hrs.
Academic Electives	6 Sem. Hrs.
RESEARCH	2-6 SEM. HRS.
Ed. 575 Research Methods and Techniques	2-3 Sem. Hrs.
El. Ed. 550 Research Project	4 Sem. Hrs.
El. Ed. 525 Master's Thesis	6 Sem. Hrs.
(Each candidate, after conference with his adviser, may select one of the above requirements.)	
UNRESTRICTED ELECTIVES	5-9 SEM. HRS.

HOME ECONOMICS EDUCATION Total Requirements 32 Semester Hours

COURSES IN TECHNICAL AND RELATED FIELDS 20-23 SEM. HRS.

Technical Courses:

Family Life (including Home Management, etc.)	2-6 Sem. Hrs.
Foods and Nutrition and/or Clothing and Textiles	2-6 Sem. Hrs.

Courses in Related Fields:

Seminar in Home Economics Ed. (required)	3 Sem. Hrs.
Workshop in Home Economics Ed. or	3-6 Sem. Hrs.
Electives (by advisement)	2-6 Sem. Hrs.

Research:

Ed. 575 Research Techniques	2 Sem. Hrs.
H. Ec. 550 Project	4 Sem. Hrs.
H. Ec. 525 Thesis	6 Sem. Hrs.
(Each candidate, after conference with her adviser, may select one of the above requirements. Credit may be applied to technical or related area or may be divided between them depending upon the nature of the work done.)	

REQUIRED COURSES IN ARTS AND SCIENCES 9-12 SEM. HRS.

Social Studies	2 Sem. Hrs.
Science and/or Art	2-4 Sem. Hrs.
Unrestricted Elective	4-6 Sem. Hrs.

INDUSTRIAL ARTS EDUCATION Total Requirements 32 Semester Hours

COURSES IN TECHNICAL AND RELATED FIELDS 20-23 SEM. HRS.

Technical Courses:

Specialization in Shop Laboratory	2-4 Sem. Hrs.
Workshop in Industrial Arts Education	2-4 Sem. Hrs.
Seminar in Industrial Arts Education	2-4 Sem. Hrs.
Field Studies in Industrial Areas	3-6 Sem. Hrs.

Courses in Related Fields:

Workshop in Industrial Art Education	2-4 Sem. Hrs.
Contemporary Labor Problems and Legislation	2-4 Sem. Hrs.
Occupational Activities for the Handicapped	2-6 Sem. Hrs.
Electives (by advisement)	2-6 Sem. Hrs.

Research:

Ed. 575 Research Techniques	2 Sem. Hrs.
I.A. 550 Project	4 Sem. Hrs.
I.A. 525 Thesis	6 Sem. Hrs.
(Each candidate, after conference with his adviser, may select one of the above requirements. Credit may be applied to technical or related fields or divided between them depending upon the nature of the work done.)	

REQUIRED COURSES IN ARTS AND SCIENCES 9-12 SEM. HRS.

English	2-4 Sem. Hrs.
Mathematics and/or Science	3-6 Sem. Hrs.
Social Studies	2-4 Sem. Hrs.
Unrestricted Electives	3-6 Sem. Hrs.

INTENSIVE TEACHER TRAINING PROGRAM ELEMENTARY TEACHING CERTIFICATION FOR LIBERAL ARTS COLLEGE GRADUATES

To help relieve the extreme shortage of elementary teachers the College offers an intensive training program through which graduates of other colleges may prepare for elementary school teaching. The completion of a minimum of thirty semester hours, on the graduate level, twenty-four hours of which shall be in education courses approved for elementary school teaching, and evidence of satisfactory teaching, as determined by an approved evaluation program, will entitle the student to a permanent certificate to teach in the elementary grades.

To enter this program college graduates register in the Graduate Division for certain specified Summer Session or Extension courses. Completion of prescribed courses in a Summer Session will entitle the college graduate to a renewable certificate valid for one year. Additional renewals will be granted upon evidence of continued Summer Session study and satisfactory teaching. The student in the Intensive Teacher Program is permitted to teach while fulfilling the requirements for elementary certification.

For students wishing to complete the requirements for the Master of Science degree, six hours of graduate study, elected under the guidance of the Graduate Division of the College, will be required *in addition to the twenty-six hours of required courses in Elementary Education. Regulations relating to admission to candidacy must be followed.* All college graduates interested in this program for certification in elementary school teaching, should secure application blanks and complete instructions for registration as soon as possible.

Intermediate and Upper Grade Group

Workshop in Elementary Education (Summer Session only)	8 Sem. Hrs.
Seminar in Elementary School Problems	3 Sem. Hrs.
(Emphasis on Science, Mathematics and Language Arts)	
Music and Art in Elementary Education	3 Sem. Hrs.
Workshop in Child Development (Summer Session only)	6 Sem. Hrs.
Problems in Elementary School Curriculum	3 Sem. Hrs.
Seminar in Elementary Education	3 Sem. Hrs.
Electives	4 Sem. Hrs.
	30 Sem. Hrs.

Kindergarten-Primary Group

Workshop in Elementary Education (Summer Session only)	8 Sem. Hrs.
Kindergarten Education	3 Sem. Hrs.

Psychology of the Pre-School Child	3 Sem. Hrs.
Seminar in Elementary School Problems	3 Sem. Hrs.
(Emphasis on Language Arts, Science, Mathematics)	
Music and Art in Elementary Education	3 Sem. Hrs.
Workshop in Child Development (Summer Session only)	6 Sem. Hrs.
Electives	4 Sem. Hrs.
	30 Sem. Hrs.

EXTENSION DIVISION SCHEDULE

(Saturday—Tuesday—Wednesday)

GRADUATE DIVISION CLASSES

1956-1957

First Semester

SATURDAY MORNING: 9:00 A.M. — 11:30 A.M. (3 hours credit)

Art 505X Seminar in Art Education	Dr. Lofgren
Art 507X Graduate Studio in Drawing and Painting	Mr. Busa
El. Ed. 501X Seminar in Elementary Education	Dr. Crayton
El. Ed. 503X Organization of the Elementary School	Dr. MacVittie
El. Ed. 510X Seminar in Elementary School Problems	Miss M. Pratt
(I.T.T.P. students only)	Miss Concannon
Ed. 537X Evaluation in the Early Secondary School	

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Art 507X Graduate Studio in Drawing and Painting	Mr. Busa
Ed. 575X Research Methods and Techniques	Dr. Penn
Ed. 533X Workshop in Audio-Visual Education	Dr. Smay
Eng. 511Ax Studies in the Poetry of the Victorian Period	Dr. McRae
I.A. 517X Electronics	Dr. Cook
I.A. 520X Design in Industrial Arts	Dr. Steffen
Sci. 509X Recent Advances in Science Applied to	
Home Economics	Miss Dupre
S.S. 515X Studies in American Colonial History	Dr. Robison

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

El. Ed. 517X Teaching the Language Arts in the	
Elementary School	Dr. Eddins
Ed. 575X Research Methods and Techniques	Dr. Hertzberg
Eng. 507X The Modern Novel	
H.Ec. 506X Seminar in Home Management	
I.A. 503X Guidance Seminar in Life Adjustment	
Education	Dr. Russell
I.A. 513X Workshop in Ceramics	Mr. Steinzor
Math. 500X Mathematics in the Elementary Curriculum	
Sci. 501X Field Studies in Science 1	Dr. Sengbusch
S.S. 518X Contemporary European Political Movements	Dr. E. Brown

TUESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

Ex. Ed. 538X Understanding the Problem Child in the
Classroom Mr. Hallowitz

TUESDAY EVENING: 6:30 P.M. — 9:00 P.M. (3 hours credit)

Art 508X Graduate Studio in Design and Spatial Organization ..
..... Mr. Jiskra
Ed. 506X Philosophy of Education Dr. Sloan
Eng. 509X Studies in the Prose and Poetry of Milton . Dr. Gronewold
H.Ec. 522X Issues in the Modern American Family Dr. Stewart
S.S. 501Bx Studies in Twentieth Century European History: The his-
tory and Institutions of the Soviet Union Dr. Mason

WEDNESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

S.S. 514X Workshop in Human Relations Dr. Burrell

Second Semester

SATURDAY MORNING: 9:00 A.M. — 11:30 A.M. (3 hours credit)

Art 511X Art in the Elementary Curriculum Mr. Ahrens
Art 512X Graduate Studio in Sculpture Mr. Bolinsky
El. Ed. 511X Music and Art in the Elementary School . Mrs. Heyman
(I.T.T.P. students only) Mr. Bailey
Ed. 519X Applied Mental Hygiene
OR
El. Ed. 521X The Elementary School Curriculum
El. Ed. 531X Supervision of Teaching Dr. Milanovich

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Art 512X Graduate Studio in Sculpture Mr. Bolinsky
Ed. 575X Research Methods and Techniques
Eng. 511BX Studies in the Prose of the Victorian Period .. Dr. Gragg
I.A. 501X Seminar in Industrial Arts Dr. Neuhardt
I.A. 524X Evaluation in Industrial Arts
Sci. 503X Ecology Dr. Urban
S.S. 540X History of the American Frontier Dr. Rapp

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

Ed. 575X Research Methods and Techniques
Geog. 500X Geography of Eastern Asia Mr. Redden
OR
Geog. 504X Studies in the Geography of North America . Mr. Redden
H.Ec. 512X Workshop in Household Equipment for Home
Economics Teachers
I.A. 521X New Methods and Techniques in Metalworking
..... Dr. Fontana
I.A. 523X Industrial Arts in the Elementary School Dr. Russell
S.S. 520X Workshop in Methods and Materials in Social Studies in
the Elementary School Dr. Robison

TUESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

Ex. Ed. 533X Seminar in Speech Pathology
Ex. Ed. 535X Mental Measurement

TUESDAY EVENINGS 6:30 P.M. — 8:10 P.M. (2 hours credit)

Ex. Ed. 591X Nature and Needs of Children Who Present Excep-
tional Problems of Learning
I.A. 519X New Methods and Techniques in Woodworking, Dr. Callan

TUESDAY EVENING: 6:30 P.M. — 9:00 P.M. (3 hours credit)

Art 513X Graduate Studio in Graphic Arts Mr. O'Connell
Ed. 527X Problems in Educational Services for Young Children
..... Miss Jamison
Ed. 546X The Teaching of Reading Dr. Lange
Eng. 518X Major American Poets Dr. Klomp
S.S. 521X Contemporary Social Problems Dr. Weaver

WEDNESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

S.S. 514Ax Advanced Workshop in Human Relations Dr. Burrell

PROPOSED GRADUATE DIVISION CLASSES

1957-1958

First Semester

SATURDAY MORNING: 9:00 A.M. — 11:30 A.M. (3 hours credit)

Art 509X Graduate Studio in Crafts Mr. Cataldo
Art 511X Art in the Elementary Curriculum Mrs. Heyman
El. Ed. 501X Seminar in Elementary Education Dr. Crayton
El. Ed. 504X Administration of the Elementary School, Dr. MacVittie
El. Ed. 510X Seminar in Elementary School Problems . Miss M. Pratt
(I.T.T.P. students only) Miss Concannon
Ed. 529X Adolescent Psychology

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Art 509X Graduate Studio in Crafts Mr. Cataldo
Ed. 575X Research Methods and Techniques
Ed. 533X Workshop in Audio-Visual Education Dr. Smay
Eng. 519X Literature and the World Today Dr. Greenwood
I.A. 517X Electronics Dr. Cook
I.A. 502X Field Studies Related to Industrial Arts Education
..... Mr. Brossman
Sci. 500X Science in the Elementary Curriculum Dr. Harman
S.S. 519X Case Studies in Local Government and Politics
..... Dr. R. Brown

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

El. Ed. 517X Teaching the Language Arts in the Elementary School
Ed. 575X Research Methods and Techniques
Eng. 520X Shakespearean Tragedy Dr. McRae

H.Ec. 517X Trends in Teaching Clothing
 I.A. 500X Workshop in Industrial Arts Education Dr. Harlan
 I.A. 503X Guidance Seminar in Life Adjustment Education Dr. Russell
 Sci. 501X Field Studies in Science 1 Dr. Eckert
 S.S. 501Ax Studies in Twentieth Century European History:
 The German Problem Dr. Mason

TUESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

Ex. Ed. 538X Understanding the Problem Child in the
 Classroom Mr. Hallowitz
 Ex. Ed. 571X Occupational Skills and Analysis of Job Areas for Chil-
 dren with Mental Retardation Miss Cleaves

TUESDAY EVENING: 6:30 P.M. — 8:10 P.M. (2 hours credit)

Ex. Ed. 513X Seminar in Speech Science

TUESDAY EVENING: 6:30 P.M. — 9:00 P.M. (3 hours credit)

Art 510X Graduate Studio in Photography Dr. Truesdale
 Ed. 506X Philosophy of Education Dr. Sloan
 Eng. 524X Realism in American Literature Dr. Klomp
 S.S. 506X Minority Groups in American Culture Dr. Hollister

WEDNESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

S.S. 514X Workshop in Human Relations Dr. Burrell

PROPOSED GRADUATE DIVISION CLASSES

1957-1958

Second Semester

SATURDAY MORNING: 9:00 A.M. — 11:30 A.M. (3 hours credit)

Art 508X Graduate Studio in Design and Spatial Organization Mr. Dakin
 Art 513X Graduate Studio in Graphic Arts Mr. O'Connell
 El. Ed. 505X Evaluation Techniques in the Elementary School
 El. Ed. 511X Music and Art in the Elementary School
 (I.T.T.P. students only)
 El. Ed. 530X Principles of Supervision Dr. Milanovich
 Ed. 536X Early Secondary School Problems and Methods
 Ed. 546X The Teaching of Reading

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Art 513X Graduate Studio in Graphic Arts Mr. O'Connell
 Ed. 575X Research Methods and Techniques
 Eng. 522X Studies in Modern American Poetry Dr. Drew
 I.A. 501X Seminar in Industrial Arts Dr. Neuthardt
 I.A. 520X Design in Industrial Arts Dr. Steffen
 Sci. 503X Ecology Dr. Urban
 S.S. 500X Studies in Twentieth Century American History Dr. Peterson

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

Ed. 575X Research Methods and Techniques
 Geog. 503X Studies in Resource Conservation Dr. Eckert
 H.Ec. 510X Practical Problems of Housing and Home Furnishing Dr. Roudebush
 I.A. 521X New Methods and Techniques in Metalworking Dr. Fontana
 I.A. 523X Industrial Arts in the Elementary School Dr. Russell
 Math. 500X Mathematics in the Elementary Curriculum
 Sci. 518X Human Biology Dr. Sengbusch
 S.S. 505X Studies in Contemporary Economic Problems

TUESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

Ex. Ed. 523X Applied Phonetics
 Ex. Ed. 561X Occupational Education for Children with
 Mental Retardation

TUESDAY EVENING: 6:30 P.M. — 8:10 P.M. (2 hours credit)

Ex. Ed. 591X Nature and Needs of Children Who Present Excep-
 tional Problems of Learning
 I.A. 519X New Methods and Techniques in Woodworking, Dr. Callan

TUESDAY EVENING: 6:30 P.M. — 9:00 P.M. (3 hours credit)

Art 506X Seminar in History of Art — Contemporary Movements
 in Art
 Ed. 527X Problems in Educational Services for Young Children Miss Jamison
 Eng. 500X Studies in the Structure and Function of Language Dr. Messner
 S.S. 511X Problems of Contemporary England Dr. Robison

WEDNESDAY AFTERNOON: 4:20 P.M. — 6:00 P.M. (2 hours credit)

S.S. 514Ax Advanced Workshop in Human Relations Dr. Burrell

UNDERGRADUATE COURSE OFFERINGS

1956-1957

(Additional classes will be
 organized if need arises)

First Semester

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Art 458X Theatre Design I Mr. Dakin
 Eng. 345X Radio and Television in Education Mr. Smith
 Geog. 403X Geography of Europe Miss Laux
 S.S. 304X American History to 1789 Dr. Sexton

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

Eng. 408X The Short Story Miss Norenberg

Sci. 305X Zoology Mr. Nadolinski
OR
Sci. 306X Botany Mr. Nadolinski
S.S. 346X American Politics and Political Parties Dr. R. Brown

Second Semester

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Art 400X Workshop in Crafts Mr. Stark
Eng. 348X Creative Dramatics Miss Piquette
Geog. 407X Conservation of Natural Resources Dr. Eckert
S.S. 315X Europe from Napoleon to the First World War

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

Eng. 407X The Romantic Movement Mr. Schuck
Sci. 311X Geology Mr. Sheel
S.S. 310X History of the Far East Mr. Rogers

PROPOSED UNDERGRADUATE COURSE OFFERINGS

1957-1958

(Additional classes will be
organized if need arises)

First Semester

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Art 256X Art in Everyday Life Mr. Tetkowski*
Eng. 210X Children's Literature Mrs. Ganey
Sci. 305X Zoology Mr. Nadolinski
OR
Sci. 306X Botony Mr. Nadolinski
S.S. 305X American History from 1789 - 1865 Dr. Brunger

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

Eng. 405X Short Writings in the Familiar Style .. Miss Norenberg
Sci. 421X Human Anatomy and Physiology Miss Dupre
S.S. 343X Cultural Anthropology Dr. Weaver

Second Semester

SATURDAY MORNING: 9:00 A.M. — 10:40 A.M. (2 hours credit)

Eng. 203X Modern Drama Mr. Schuck
Sci. 401X Genetics Mr. Laug
S.S. 312X History and Government of New York State
.. Dr. Weaver

SATURDAY MORNING: 10:50 A.M. — 12:30 P.M. (2 hours credit)

Art 406X Creative Art Workshop Mr. Hoffa*
Eng. 349X Speech Activities in the Elementary School
.. Miss Piquette
S.S. 225X Historical Influences on Modern Society .. Dr. E. Brown

*May be registered for 3 hours undergraduate credit 9:00 -11:30 A.M., with
consent of instructor.

COURSE DESCRIPTIONS

GRADUATE COURSES IN ART EDUCATION

ART 505X. SEMINAR IN ART EDUCATION. Problems and projects in teaching and supervising art in various types of communities and schools; contemporary philosophy, psychology, principles, and practices in art and general education; research and scientific methods in determining programs, policies, and procedures for the art teacher and supervisor. Required of all Art Education majors. Prerequisite: one or more years of teaching. Credit: three semester hours.

ART 506X. SEMINAR IN HISTORY OF ART — CONTEMPORARY MOVEMENTS IN ART. Trends in the arts of painting, sculpture, graphic arts, architecture, industrial art, commercial art, and crafts, related to developments in music, drama, and literature; lectures, readings, experiments and demonstrations; visits to galleries, studios, and plays. Credit: three semester hours.

ART 507X. GRADUATE STUDIO IN DRAWING AND PAINTING. Individual activities with a variety of graphic media determined for each individual according to his background and needs; studio and outdoor problems, field and gallery trips. Credit: two or three semester hours.

ART 508X. GRADUATE STUDIO IN DESIGN AND SPATIAL ORGANIZATION. Individualized designing with paint and materials; specialization may be in home planning and furnishing; costume, textile, stage, commercial or industrial design. Credit: three semester hours.

ART 509X. GRADUATE STUDIO IN CRAFTS. Individualized work in textiles, jewelry, leather, woodcarving, sculpture, plastics, pottery, and metal. Credit: two or three semester hours.

ART 510X. GRADUATE STUDIO IN PHOTOGRAPHY. Photographic processes; black-and-white and color photography as a form of expression, as commercial art, as a form of recording, and as used in the making of teaching aids and publications. Credit: three semester hours.

ART 511X. ART IN THE ELEMENTARY CURRICULUM. The use of art materials, processes, and procedures in the elementary school; developing creative and expressive activities of children. Credit: three semester hours.

ART 512X. GRADUATE STUDIO IN SCULPTURE. Sculpture as a means of individual and group expression; theory and processes using media such as wood, stone, plaster, cement block and metal. Credit: two or three semester hours.

ART 513X. GRADUATE STUDIO IN GRAPHIC ARTS. Individually programmed activities in one or more of the following media: lithography, wood engraving, etching, serigraphy, dry paint, engraving. Credit: three semester hours.

GRADUATE COURSES IN EDUCATION

ED. 506X. PHILOSOPHY OF EDUCATION. Principles underlying educational practices; changing concepts of education; education in a democratic society; teaching procedures as determined by a democratic concept of education. Credit: three semester hours.

ED. 519X. APPLIED MENTAL HYGIENE. Principles of mental hygiene and their application to personality development, emotional and social adjustment, and human relationships; application of mental hygiene principles to processes of teaching, pupil learning, classroom management, and conduct of the teacher in lay and professional relationships. Credit: three semester hours.

ED. 527X. PROBLEMS IN EDUCATIONAL SERVICES OF YOUNG CHILDREN. Current social and economic trends affecting the lives of young children; curriculum contributions for developing individual and group living; educational problems confronting teachers in this specialized field. Open to undergraduates with consent of the instructor. Credit: three semester hours.

ED. 529X. ADOLESCENT PSYCHOLOGY. Social, emotional, mental, physical and personality development of adolescents; relationship of adolescent behavior to pre-adolescent and post-adolescent development; educational adjustments and vocational interests; guidance program in early secondary school. For students preparing for early secondary school teaching. Prerequisites: six semester hours in Child Development or its equivalent and the baccalaureate degree. Credit: three semester hours.

ED. 533X. WORKSHOP IN AUDIO-VISUAL EDUCATION. Basic audio-visual teaching methods; knowledges and skills in use of equipment; films, filmstrips, slides, and other materials; sources of material and equipment; audio-visual programs in the school; film libraries; ordering of materials; budgets and administration; evaluation of the program. Credit: two semester hours.

ED. 536X. EARLY SECONDARY SCHOOL PROBLEMS AND METHODS. Objectives of early secondary school education; basic principles of learning and motivation; curriculum concepts; organizing learning experiences; providing for individual differences; teacher-pupil planning; selecting and organizing learning materials; audio-visual aids to learning; utilizing school, civic and community resources; status and practice of the core curriculum; nature and purposes of resource units; evaluating pupil growth. For students preparing for early secondary school teaching. Prerequisites: baccalaureate degree. Credit: three semester hours.

ED. 537X. EVALUATION IN THE EARLY SECONDARY SCHOOL. Relationship of evaluation to instructional objectives; selecting, administering, scoring, recording and interpreting standardized and teacher-made instruments for evaluating mental abilities, educational achievements, personality characteristics, interests and aptitudes; diagnosis; guidance; counseling; improving instruction; providing statistical concepts and methods of collecting, tabulating and interpreting data. Credit: three semester hours.

ED. 546X. THE TEACHING OF READING. Importance of reading in present day society; research in child development and learning and its implication for the teaching of reading; trends in the teaching of reading; developmental levels of reading; reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading. Credit: three semester hours.

ED. 575X. RESEARCH METHODS AND TECHNIQUES. Various research methods and techniques; collecting, classifying, evaluating data. Required of all candidates for Master of Science degree not writing a thesis, or completing a project. Credit: two semester hours.

GRADUATE COURSES IN ELEMENTARY EDUCATION

EL. ED. 501X. SEMINAR IN ELEMENTARY EDUCATION. Research in elementary education; study of specific problems by individual students in their field of teaching. Required of Elementary Education candidates for the Master of Science degree. Credit: three semester hours.

EL. ED. 503X. ORGANIZATION OF THE ELEMENTARY SCHOOL. Major concepts in Elementary Education; administration of the elementary school; the curriculum; grouping of pupils; the school plant; trends in school building design; co-curricular activities; pupil safety measures. May precede or follow El. Ed. 504. Open to experienced teachers, principals, and supervisors. Credit: three semester hours.

EL. ED. 504X. ADMINISTRATION OF THE ELEMENTARY SCHOOL. New York State educational system; legal aspects; school board; educational finance; responsibilities of the principal; business management, school plant management; plant maintenance; pupil transportation; pupil counseling; teacher recruitment, selection, employment, assignment, orientation, evaluation, tenure and dismissal. May precede or follow El. Ed. 503. Open to experienced teachers, principals, and supervisors. Credit: three semester hours.

EL. ED. 505X. EVALUATION TECHNIQUES IN THE ELEMENTARY SCHOOL. Evaluating educational growth of pupils; evaluation related to teaching objectives; informal, objective, and essay type tests; selection, administration, and scoring of measuring instruments (for evaluating and diagnosing mental abilities, educational achievements and personality characteristics of pupils); statistical methods in handling and interpreting data; organization of remedial programs. Credit: three semester hours.

EL. ED. 510X. SEMINAR IN ELEMENTARY SCHOOL PROBLEMS. Methods and materials in language arts, science and mathematics for Elementary School teachers. Open only to liberal arts graduates in the Intensive Teacher Training Program. Credit: three semester hours.

EL. ED. 511X. MUSIC AND ART IN THE ELEMENTARY SCHOOL. Activities and experiments in various art materials suitable for elementary grades with emphasis on new processes and procedures; meets the classroom teacher's need in the field of music. Open only to liberal arts graduates in the Intensive Teacher Training Program. Credit: three semester hours.

EL. ED. 517X. TEACHING THE LANGUAGE ARTS IN ELEMENTARY SCHOOL. Recent research in spelling, written communication, oral communication, reading, creative writing, listening skills; implications for creating learning experiences for children; developing a language arts program. Open to graduate students and undergraduate experienced teachers. Credit: two semester hours.

EL. ED. 521X. THE ELEMENTARY SCHOOL CURRICULUM. Review of child nature and the learning process; purposes of the elementary school; conflicting philosophies and principles of curriculum development; types of curriculum organization; transitional steps; methods and materials; creative activities; mental health; community resources; individual differences. Credit: three semester hours.

EL. ED. 530X. PRINCIPLES OF SUPERVISION. Historical developments and changing concepts of supervision; principles of effective supervisory programs; types of administrative organization; maintaining staff morale. Open to experienced teachers, principals, and supervisors. Credit: three semester hours.

EL. ED. 531X. SUPERVISION OF TEACHING. Principles of supervision; classroom observation; evaluating teachers; effect of teachers' purposes and research on choice of subject matter and teaching procedures; teacher-pupil relationships; group and individual conferences; induction of new teachers; inter-visitation; demonstration teaching; teachers' meetings; bulletins; workshops; evaluation of program. Open to experienced teachers, principals and supervisors. Credit: three semester hours.

GRADUATE COURSES IN ENGLISH

ENG. 500X. STUDIES IN THE STRUCTURE AND FUNCTION OF LANGUAGE. Fundamental principles basic to all languages; theories of the origin of language; the nature and psychology of language; phonetics and phonetic change; alphabets and systems of writing; language types and families; the Indo-European family and its branches; the history of the English language; word origins and changes in meaning; speech standards. Credit: three semester hours.

ENG. 507X. THE MODERN NOVEL. Outstanding American and English twentieth century novels, their social and artistic significance. Credit: two semester hours.

ENG. 509X. STUDIES IN THE PROSE AND POETRY OF MILTON. An intensive study of the most important prose and poetry of Milton with particular emphasis on "Paradise Lost"; the background of Milton's writings. Consent of instructor required. Credit: three semester hours.

ENG. 511Ax. STUDIES IN THE POETRY OF THE VICTORIAN PERIOD. Major Victorian poets, with emphasis on Tennyson and Browning; social, political, and intellectual background of the times. Credit: two semester hours.

ENG. 511Bx. STUDIES IN THE PROSE OF THE VICTORIAN PERIOD. Major Victorian essayists with reference to the intellectual background of nineteenth-century England: Carlyle, Newman, Macaulay, J. S. Mill, Ruskin, and Arnold. Credit: two semester hours.

ENG. 518X. MAJOR AMERICAN POETS. Nineteenth century poets of first rank and their contributions to a national literature; some attention to chief figures in the poetry revival of the 20th century. Credit: three semester hours.

ENG. 519X. LITERATURE AND THE WORLD TODAY. Current ideas expressed through novels, plays, and critical reports; contribution of the magazine, news-paper and motion picture to the world's view of America. Credit two semester hours.

ENG. 520X. SHAKESPEAREAN TRAGEDY. Esthetic and philosophic qualities of Shakespearean tragedy studied in the playwright's mature plays: Hamlet, Othello, Lear, Macbeth; readings in Shakespeare criticism. Credit: two semester hours.

ENG. 522X. STUDIES IN MODERN AMERICAN POETRY. Trends and outstanding figures in American poetry since 1912; emphasis upon the work of two writers from the following: Robinson, Frost, Millay, Eliot, and Benet. Credit: two semester hours.

ENG. 524X. REALISM IN AMERICAN LITERATURE. Realistic writers of the late 19th century; Howells, James, Clemens, Crane, Norris, and others. Credit: three semester hours.

GRADUATE COURSES IN EXCEPTIONAL CHILDREN EDUCATION

EX. ED. 513X. SEMINAR IN SPEECH SCIENCE. Anatomy, physics, and physiology of speech, stressing research and experimental studies in the field. Prerequisites: Ex. Ed. 204, 305, 306 and 308 or equivalent. Credit: two semester hours.

EX. ED. 520X. SPEECH CORRECTION FOR ELEMENTARY SCHOOL TEACHERS. Types and causes of speech defects and disorders found in elementary school children; treatment of minor disorders by the classroom teacher; some phonetics and speech science; observation of children with speech problems. Credit: two semester hours.

EX. ED. 523X. APPLIED PHONETICS. The application of phonetics to the teaching of speech in the elementary and secondary school; the teaching of speech to the deaf; speech correction including foreign dialects. Open to graduate and qualified undergraduate students. Required for certification in Speech Correction and Education of Deaf and Hard of Hearing Credit: two semester hours.

EX. ED. 533X. SEMINAR IN SPEECH PATHOLOGY. Research studies in Speech: stuttering, voice defects, cleft palate, and cerebral palsy. Prerequisite: Ed. Ex. 204, 305, 306 and 308 or equivalent. Credit: two semester hours.

EX. ED. 535X. MENTAL MEASUREMENT. Presentation use and interpretation of mental and performance tests; demonstrations; student participation in giving psychometric examinations. Credit: two semester hours.

EX. ED. 538X. UNDERSTANDING THE PROBLEM CHILD IN THE CLASSROOM. Personal and social factors as related to the problem child; case study of an individual pupil and group discussion of report. Enrollment limited to fifteen. Open to graduate students in any division. Credit: two semester hours.

EX. ED. 561X. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDATION. Curriculum development, based upon a philosophy of occupational education and curricular cores, designed for special class teachers and administrators of classes of children with mental retardation and for teachers of regular classes who must provide adjustments for slow learning children. Credit: two semester hours.

EX. ED. 571X. OCCUPATIONAL SKILLS AND ANALYSIS OF JOB ARTS FOR CHILDREN WITH MENTAL RETARDATION. Instruction in the manual skills needed by children with retarded mental development; experience in the techniques needed in making job analyses in the job areas in which the retarded find employment. Credit: two semester hours.

EX. ED. 591X. NATURE AND NEEDS OF CHILDREN WHO PRESENT EXCEPTIONAL PROBLEMS OF LEARNING. Study of the nature and needs of children with mental retardation; examination of the causes and implications of mental deficiency as they affect the home, school and community adjustment of the retarded. Credit: two semester hours.

GRADUATE COURSES IN GEOGRAPHY

GEOG. 500X. GEOGRAPHY OF EASTERN ASIA. China, Japan, Korea, eastern U.S.S.R., the Indo-China Peninsula, and the East Indies; physical characteristics; economic, social, and political conditions. Credit: two semester hours.

GEOG. 503X. STUDIES IN RESOURCE CONSERVATION. Principles of conservation of natural resources; selected problems such as soil erosion in Western New York, pollution on the Erie-Niagara Watershed, Great Lakes fisheries, flood control and stream improvement, management of farm woodlands, the New York State Forest Preserve, recreational resources and wildlife management programs in Western New York. Credit: two semester hours.

GEOG. 504X. STUDIES IN THE GEOGRAPHY OF NORTH AMERICA. Utilization of mineral, water, and forest resources; geography of agriculture, manufacturing, transportation, recreation, hemisphere defense, power production; selected topics pertaining to recent changes and current developments. Credit: two semester hours.

GRADUATE COURSES IN HOME ECONOMICS

H. EC. 506X. SEMINAR IN HOME MANAGEMENT. Developments in the field of managing the home; problems in teaching management to secondary and adult classes; individual problems related to student needs. Credit: two semester hours.

H. EC. 510X. PRACTICAL PROBLEMS OF HOUSING AND HOME FURNISHING. Problems related to housing and home furnishings; planning and constructing furnishings; field trips. Credit: two semester hours.

H. EC. 512X. WORKSHOP IN HOUSEHOLD EQUIPMENT FOR HOME ECONOMICS TEACHERS. Survey and evaluation of developments in large and small equipment used in homes and schools; field trips, laboratory and demonstrations. Credit: two semester hours.

H. EC. 517X. TRENDS IN TEACHING CLOTHING. Interpretation, use and evaluation of present trends in the teaching of clothing construction; emphasis on recent techniques and the importance of time and energy management; equipment which can simplify various construction processes; individual clothing projects. Credit: two semester hours.

H. EC. 522X. ISSUES IN THE MODERN AMERICAN FAMILY. Current educational, psychological, and social issues and concerns of the modern American family examined and related to changing cultural values. Credit: three semester hours.

GRADUATE COURSES IN INDUSTRIAL ARTS

I.A. 500X. WORKSHOP IN INDUSTRIAL ARTS. Organizing and operating the Industrial Arts programs at the elementary, junior, senior high school and adult levels. Credit: two semester hours.

I.A. 501X. SEMINAR IN INDUSTRIAL ARTS. Discussion, research, reports on individual and group problems in Industrial Arts Education. Required of Industrial Arts students registered for the degree of Master of Science. Credit: two semester hours.

I.A. 502X. FIELD STUDIES RELATED TO INDUSTRIAL ARTS EDUCATION. Individual and group studies of industrial activities in the Niagara Frontier; the wood-working and fabricating trades; metal industries; plastic and fibre products; graphic arts; electrical, ceramic, airplane and automotive manufacture; conferences with representatives of industry and various labor organizations. Credit: two semester hours.

I.A. 503X. GUIDANCE SEMINAR IN LIFE ADJUSTMENT EDUCATION. Survey and evaluation of the educational movements leading to the Prosser Resolution; effects of the Life Adjustment Movement upon the schools in the various subject matter areas; implementation of the movement; reports of adaptation plans made in teaching situations. Credit: two semester hours.

I.A. 513X. WORKSHOP IN CERAMICS. The Industrial Arts ceramics program; basic forming techniques; advanced processes of production in throwing and casting; decoration; firing and kiln construction; body and glaze composition; design of ceramic products. Credit: two semester hours.

I.A. 517xA—I.A. 517xB. ELECTRONICS: Electronics in the junior and senior high school industrial arts program; advanced electronic theory and practice in communications; development of instructional materials, demonstration equipment, projects, and visual aids. I.A. 517xA, Credit: two semester hours. I.A. 517xB, Credit: two semester hours.

I.A. 519X. NEW METHODS AND TECHNIQUES IN WOODWORKING. Carving, appliques and inlays; plastic finishes, wood substitutes, wood bleaches, other recent materials and techniques of the wood industries; individual problems of the in-service teacher. Credit: two semester hours.

I.A. 520X. DESIGN IN INDUSTRIAL ARTS. Graduate study of design as applied to industrial arts. Research, discussion and practice in originating designs for all areas of industrial arts technical study. Analysis of designs with discussions for suggested redesign. Credit: two semester hours.

I.A. 521X. NEW METHODS AND TECHNIQUES IN METALWORKING. New materials and their possibilities for industrial arts activities; investigation of modern industrial processes in metalworking and their implications for the teaching of Industrial Arts. Credit: two semester hours.

I.A. 523X. INDUSTRIAL ARTS IN THE ELEMENTARY SCHOOL. Functions of Industrial Arts in the elementary school; study of activities for the various grade levels; problems of equipment, organization, supplies; planning and executing units of work. Credit: two semester hours.

I.A. 524X. EVALUATION IN INDUSTRIAL ARTS. General principles of evaluation; construction and use of various informal devices and techniques of evaluation applicable to industrial arts; selection and use of appropriate standardized instruments of evaluation; observation, rating scales, anecdotal records, personnel systems, and the industrial arts project; interpreting, recording and using the results of evaluation for the improvement of instruction. Credit: two semester hours.

GRADUATE COURSES IN MATHEMATICS

MATH. 500X. MATHEMATICS IN THE ELEMENTARY CURRICULUM. Development of number; rationale of processes; relationships; generalizations; meaning and significance of number and processes; mathematics as a language; measurement; problem solving; visual aids; professional literature; analyses and reports of readings; individual research and project. Credit: two semester hours.

GRADUATE COURSES IN SCIENCE

SCI. 500X. SCIENCE IN THE ELEMENTARY CURRICULUM. Background, purposes and present scope of science in the elementary schools; professional review of subject matter with demonstrations, experiments, audio-visual aids, readings. Credit: two semester hours.

SCI. 501X. FIELD STUDIES IN SCIENCE I. Biological and geological field work; Selected field studies, group and individual; Intensive studies of one or more areas. Elective for seniors with an average of C or higher in science and for graduates with six hours of undergraduate science. Credit: two semester hours.

SCI. 503X. ECOLOGY. Scientific nature study, the relationships between living things and their physical environment; biological relationships between and within species; man's relationship with the natural environment. Lectures, discussion, readings. Credit: two semester hours.

SCI. 509X. RECENT ADVANCES IN SCIENCE AS APPLIED TO HOME ECONOMICS. Developments in control of food poisonings; study of research in nutritive values of proteins; bacteriology and chemistry of frozen foods; effects of food processing on nutrition; research in other areas affecting home economics; lecture, laboratory work. Open to Graduate students in Division of Home Economics Education only. Credit: two semester hours.

SCI. 518X. HUMAN BIOLOGY. Origin and development of the human species; human anatomy and physiology; reproduction, embryology, and life cycle; genetics of man; conservation of human resources; new problems in human biology. Required of all candidates for extension of certification to include the teaching of science in the early secondary school. Prerequisites: Sci. 201-202; 303-304. Credit: two semester hours.

GRADUATE COURSES IN SOCIAL STUDIES

S.S. 500X. STUDIES IN TWENTIETH CENTURY AMERICAN HISTORY. Aspects of American life since 1900; significant trends, policies, and ideas in politics, diplomacy, and national culture; topics for study dictated by student needs and interests. Prerequisites: 15 hours in Social Studies, including six in American History and six in European History. Credit: two semester hours.

S.S. 501Ax. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY. The "German Problem"; political thought and institutions in Germany prior to 1914; development of the Weimar Republic; the Hitler movement; structure and ideology of the Nazi Party and state; foreign policy leading to World War II; Nazi rule and defeat in Europe; post-war German questions. Prerequisites: 15 hours in Social Studies, including nine in European History. Credit: two semester hours.

S.S. 501Bx. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY. The history and institutions of the Soviet Union; chief factors in tsarist Russia; Revolution of 1917; the Bolsheviks' rise to power; political and social ideology; government and the Communist party; economic system; peasant problem; Soviet foreign policy and its relation to international organization; impact of the Soviet Union upon the western world. Prerequisites: 15 hours in Social Studies, including nine in European History. Credit: two semester hours.

S.S. 504X. HISTORY OF THE AMERICAN FRONTIER. Progress of settlement from the Atlantic to the Pacific; transmission of culture; developments in transportation; the process of state-making; transition from agrarian to urban communities; social, economic, and political effects of the westward march upon the United States as a whole. Prerequisites: 15 hours in Social Studies, including six in American History and six in European History. Credit: two semester hours.

S.S. 505X. STUDIES IN CONTEMPORARY ECONOMIC PROBLEMS. International trade; international finance; inflation; labor legislation; problems of labor and management; price levels. Registration by consent of instructor. Credit: two semester hours.

S.S. 506X. MINORITY GROUPS IN AMERICAN CULTURE. Major racial, nationality, and religious minority groups in America studied from the cultural, historical, and familiar points of view; current anthropological and psychological data on uniformities, differences, prejudices, and discrimination. Prerequisites: 15 hours in Social Studies. Credit: three semester hours.

S.S. 511X. PROBLEMS OF CONTEMPORARY ENGLAND. Rise of trade unions; industrial and labor relations; history of the Labor Party; programs for social democracy; the changing world position of England. Credit: three semester hours.

S.S. 514X. WORKSHOP IN HUMAN RELATIONS. Improvement of human relations in classrooms; development of constructive social attitudes in children; particular difficulties faced by children of various groups; guest speakers on local problems. Credit: two semester hours.

S.S. 514Ax. ADVANCED WORKSHOP IN HUMAN RELATIONS. Materials and methods in individual and group work in human relations; individual studies of community agencies and organizations; techniques for reducing tensions in a changing neighborhood; specific situations within a classroom or school causing tensions. Credit: two semester hours.

S.S. 515X. STUDIES IN AMERICAN COLONIAL HISTORY. Comparison of colonial policies of European powers in the new world; modification in a new environment of transplanted elements such as the family, church, schools, economy, and government. Prerequisites: 15 hours in Social Studies. Credit: two semester hours.

S.S. 518X. CONTEMPORARY EUROPEAN POLITICAL MOVEMENTS. Organization, campaigns, propaganda, electoral geography, and parliamentary tactics; national political parties, especially the Communist, Socialist, Christian Democratic, Radical, Democratic, Peasant, Conservative, and Neo-Fascist. Prerequisites: 15 hours in Social Studies, including six in European History. Credit: two semester hours.

S.S. 519X. CASE STUDIES IN LOCAL GOVERNMENT AND POLITICS. Structure and practice; revenues and expenditures; public housing, health, and welfare; planning and zoning; educational-political relationships; topics selected according to student needs and interests. Prerequisites: 15 hours in Social Studies, including six in American History, and/or Government. Open to qualified seniors with consent of instructor. Credit: two semester hours.

S.S. 520X. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. Consideration of unit, topic, discussion, project, problem, and laboratory methods; teaching aids such as film strips, pictures, models and library reference materials; types of evaluation. Credit: two semester hours.

S.S. 521X. CONTEMPORARY SOCIAL PROBLEMS. Problem areas of American society; sources of information; techniques for discovering and analyzing social problems; analysis of several major problems, selected according to student needs and interests. Prerequisites: course in elementary Sociology. Open to qualified seniors with consent of instructor. Credit: three semester hours.

UNDERGRADUATE ART COURSES

ART 256X. ART IN EVERYDAY LIFE. Art as related to personal life, home, school, community, industry, and commerce; architectural and interior design, costume design, consumer education, interrelationship of the arts; directed observations and participation in secondary school art education. Required of Art Education Sophomores. Credit: two or three semester hours.

ART 400X. WORKSHOP IN CRAFTS I. Various crafts: leather work, metal work, ceramics and jewelry; group and individual instruction; election of creative projects. Credit: two semester hours.

ART 406X. CREATIVE ART WORKSHOP. Activities and art material suitable for the elementary grades; individual experiments in various media; watercolor, powder paint, finger paint, tempera, inks, dyes, crayon, paper, cardboard, wood, cloth, soap, clay, plaster, rubber, plastics, wire, thin metals, yarn and other materials. Elective for all students except Art Education majors. Credit: two or three semester hours.

ART 458X. THEATRE DESIGN I. Philosophy, techniques, and practices in design for the dramatic arts; scenery, costume, makeup, lighting and allied stage crafts; model sets and production work. Required of all Art Education seniors. Credit: two semester hours.

UNDERGRADUATE COURSES IN ENGLISH

ENG. 203X. MODERN DRAMA. Chief modern dramatists of Continental Europe, England and America from Ibsen to the present time. Credit: two semester hours.

ENG. 210X. CHILDREN'S LITERATURE. Types of children's literature; criteria of book selection; reading interests of children; preparation of bibliography. Credit: two semester hours.

ENG. 345X. RADIO AND TELEVISION IN EDUCATION. Broadcasting and its history; program evaluation; recordings; radio and television in the classroom; tours of broadcasting facilities; research paper. Credit: two semester hours.

ENG. 348X. CREATIVE DRAMATICS. History, philosophy, methods, and materials of informal playmaking with children; observation and participation in Campus School. Credit: two semester hours.

ENG. 349X. SPEECH ACTIVITIES IN THE ELEMENTARY SCHOOL. Speech as an integrative and developmental activity of elementary school children; conversation; story telling; word games; interviews; creative dramatics. Credit: two semester hours.

ENG. 405X. SHORT WRITINGS IN THE FAMILIAR STYLE. Informal writings of Beerbohm, Leacock, Thurber, Lewis Allen, Heywood Broun, E. B. White, and others. Credit: two semester hours.

ENG. 407X. ROMANTIC MOVEMENT. Romantic poetry and prose: Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats; critics of the period. Credit: two semester hours.

ENG. 408X. THE SHORT STORY. Development of the short story; Hawthorne, Poe, Bierce, W. D. Steele, Susan Glaspell, Ring Lardner, O. Henry, Hemingway, and others. Credit: two semester hours.

UNDERGRADUATE COURSES IN GEOGRAPHY

GEOG. 403X. GEOGRAPHY OF EUROPE. Physiographic and climatic regions related to human use; agriculture, manufacturing, transportation; development of major cities; geographic background of current problems. Credit: two semester hours.

GEOG. 407X. CONSERVATION OF NATURAL RESOURCES. Depletion of resources: soil, water, wildlife, minerals, forests, and grasslands; wise use of resources; conservation programs in the United States. Credit: two semester hours.

UNDERGRADUATE COURSES IN SCIENCE

SCI. 305X. ZOOLOGY. Morphology, physiology, adaptation, reproduction, genetics and ecology of animals; lectures, demonstrations, laboratory work. Credit: two semester hours.

SCI. 306X. BOTANY. Structure and physiology of plants; observations, experiments, and laboratory work centered around control of plant life. Elective for students who have had Science 201-2 or its equivalent. Credit: two semester hours.

SCI. 311X. GEOLOGY. Geologic processes during past ages; life and activity in the various eras; local fossils, rock formations, and geologic history; museum and field trips. Prerequisite: Sci. 101 or its equivalent. Credit: two semester hours.

SCI. 401X. GENETICS. Principles of heredity; inheritance of specific plant, animal, and human traits. Prerequisite: Sci. 201-202, or its equivalent. Credit: two semester hours.

SCI. 421X. HUMAN ANATOMY AND PHYSIOLOGY. Structure and function of the human body, including metabolism, nutrition, and disease. Credit: two semester hours.

UNDERGRADUATE COURSES IN SOCIAL STUDIES

S.S. 225X. HISTORICAL INFLUENCES ON MODERN SOCIETY. Impact of significant forces in civilization upon present-day culture: medieval scholasticism; Renaissance individualism and humanism; the scientific spirit; 18th century rationalism; revolutionary doctrine; evolution of the democratic idea; imperialism; nationalism; recent rise of oriental peoples; growth of international organizations. Credit: two semester hours.

S.S. 304X. AMERICAN HISTORY TO 1789. Early American history from the discovery and settlement of the New World to the formation of the Constitution; European influences; growth and development of the English colonies; the Revolution; establishment of the new nation. Credit: two semester hours.

S.S. 305X. AMERICAN HISTORY FROM 1789-1865. Development of American political, social, and economic institutions under the Constitution, from its adoption in 1789 to its final acceptance in 1865. Credit: two semester hours.

S.S. 310X. HISTORY OF THE FAR EAST. Selected topics in the history of China and Japan from the fourteenth century to the present; emphasis on the period after 1800. Credit: two semester hours.

S.S. 312X. HISTORY AND GOVERNMENT OF NEW YORK STATE. Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth to the present time. Credit: two semester hours.

S.S. 315X. EUROPE FROM NAPOLEON TO THE FIRST WORLD WAR. Major influences in nineteenth century Europe; nationalism, imperialism, Industrial Revolution, democracy, and socialism; causes of World War I. Credit: two semester hours.

S.S. 343X. CULTURAL ANTHROPOLOGY. Man as a physical form; culture in its relation to society, to the individual, and to personality; prehistoric developments of culture; universals and variations in cultures; cultural traits and institutions; dynamics of cultural change. Credit: two semester hours.

S.S. 346X. AMERICAN POLITICS AND POLITICAL PARTIES. Framework of American political system; major and minor parties; party organization; party bosses and machines; pressure politics; public opinion and propaganda; party finance; what the citizen can do in politics; talks and interviews by local political leaders. Credit: two semester hours.

GRADUATE DIVISION EXTENSION COURSES

These courses include the graduate offerings from
1955 through 1958 as indicated.

'57-'58	'56-'57	'55-'56		
		*	Art 501X	Workshop in Art Education
		*	Art 504X	Art in Human Affairs
	*		Art 505X	Seminar in Art Education
*			Art 506X	Seminar in History of Art — Contemporary Movements in Art
*	*		Art 507X	Graduate Studio in Drawing and Painting
*	*	*	Art 508X	Graduate Studio in Design and Spatial Organization
*		*	Art 509X	Graduate Studio in Crafts
*		*	Art 510X	Graduate Studio in Photography
*	*	*	Art 511X	Art in the Elementary Curriculum
*	*	*	Art 512X	Graduate Studio in Sculpture
*	*	*	Art 513X	Graduate Studio in Graphic Arts
		*	Ex. Ed. 511X	Seminar in Education of Mentally Retarded Children
*		*	Ex. Ed. 513X	Seminar in Speech Science
	*	*	Ex. Ed. 520X	Speech Correction for Elementary School Teachers
*		*	Ex. Ed. 523X	Applied Phonetics
		*	Ex. Ed. 524X	Introduction to Audiology
	*	*	Ex. Ed. 533X	Seminar in Speech Pathology
	*	*	Ex. Ed. 535X	Mental Measurement
*	*	*	Ex. Ed. 538X	Understanding the Problem Child
*		*	Ex. Ed. 541X	Seminar in Psychology of Exceptional Children
*		*	Ex. Ed. 561X	Occupational Education
*		*	Ex. Ed. 571X	Occupational Skills
*	*	*	Ex. Ed. 591X	Nature and Needs of Children who Present Exceptional Problems of Learning
*	*	*	El. Ed. 501X	Seminar in Elementary Education
	*		El. Ed. 503X	Organization of the Elementary School
*		*	El. Ed. 504X	Administration of the Elementary School
*		*	El. Ed. 505X	Evaluation Techniques
*	*	*	El. Ed. 510X	Seminar in Elementary School Problems (I.T.T.P.)
*	*	*	El. Ed. 511X	Music and Art in Elementary Education (I.T.T.P.)
		*	El. Ed. 514X	Diagnostic and Remedial Techniques — Reading

	*	El. Ed. 516X	Methods and Materials in the Elementary School
*	*	El. Ed. 517X	Teaching of Language Arts in the Elementary School
	*	El. Ed. 521X	Elementary School Curriculum
*	*	El. Ed. 527X	Problems in Educational Services for Young Children
*	*	El. Ed. 530X	Principles of Supervision
	*	El. Ed. 531X	Supervision of Teaching
	*	El. Ed. 585X	Reading Clinic
*	*	Ed. 506X	Philosophy of Education
	*	Ed. 509X	Personality Adjustment in the Elementary School
	*	Ed. 518X	Studies in Human Growth and Development
	*	Ed. 519X	Applied Mental Hygiene
*	*	Ed. 527X	Problems in Educational Services for Young Children
*		Ed. 529X	Adolescent Psychology
*	*	Ed. 533X	Workshop in Audio-Visual Education
*	*	Ed. 536X	Early Secondary School Problems and Methods
	*	Ed. 537X	Evaluation in the Early Secondary School
	*	Ed. 542X	Seminar in the Early Secondary School Curriculum
*	*	Ed. 546X	The Teaching of Reading
*	*	Ed. 575X	Research Methods and Techniques
*	*	Eng. 500X	Studies in the Structure and Function of Language
	*	Eng. 502X	Studies in American Literature
	*	Eng. 505X	Studies in the Novel
	*	Eng. 507X	The Modern Novel
	*	Eng. 509X	Studies in the Prose and Poetry of Milton
	*	Eng. 511Ax	Studies in the Poetry of the Victorian Period
	*	Eng. 511Bx	Prose of the Victorian Period
	*	Eng. 514X	Children's Literature
	*	Eng. 518X	Major American Poets
*		Eng. 519X	Literature and the World Today
*		Eng. 520X	Shakespearean Tragedy
	*	Eng. 521X	Studies in Modern British Poetry
*		Eng. 522X	Studies in Modern American Poetry
*	*	Eng. 524X	Realism in American Literature
	*	Geog. 500X	Geography of Eastern Asia
	*	Geog. 501X	Studies in Industrial Geography
*		Geog. 503X	Studies in Resource Conservation
*		Geog. 504X	Studies in the Geography of North America

	*	H. Ec. 504X	Problems in Foods and Nutrition
	*	H. Ec. 506X	Seminar in Home Management
	*	H. Ec. 507X	Evaluation in Home Economics Education
	*	H. Ec. 510X	Practical Problems of Housing and Home Furnishing
	*	H. Ec. 517X	Trends in Teaching Clothing
*	*	H. Ec. 522X	Issues in the Modern American Family
*	*	I.A. 500X	Workshop in Industrial Arts Education
*	*	I.A. 501X	Seminar in Industrial Arts Education
*	*	I.A. 502X	Field Studies Related to Industrial Arts Education
*	*	I.A. 503X	Guidance Seminar in Life Adjustment Education
	*	I.A. 513X	Workshop in Ceramics
*	*	I.A. 517X	Electronics
*	*	I.A. 519X	New Methods and Techniques in Woodworking
*	*	I.A. 520X	Design in Industrial Arts
*	*	I.A. 521X	New Methods and Techniques in Metalworking
*	*	I.A. 523X	Industrial Arts in the Elementary School
*	*	I.A. 524X	Evaluation and Testing in Industrial Arts
	*	I.A. 526X	Applied Design
*	*	Math. 500X	Mathematics in the Elementary Curriculum
*	*	Sci. 500X	Science in the Elementary Curriculum
*	*	Sci. 501X	Field Studies in Science
*	*	Sci. 503X	Ecology
*	*	Sci. 509X	Recent Advances in Science as Applied to Home Economics
	*	Sci. 518X	Human Biology
	*	Sci. 523X	Science in Transportation
*	*	Span. 500X	Workshop in the Teaching of Spanish in the Elementary Grades
*		S.S. 500X	Studies in Twentieth Century American History
*		S.S. 501Ax	Studies in Twentieth Century European History: The German Problem
*	*	S.S. 501Bx	Studies in Twentieth Century European History: The History and Institutions of the Soviet Union
	*	S.S. 504X	History of the American Frontier
*	*	S.S. 505X	Studies in Contemporary Economic Problems
*	*	S.S. 506X	Minority Groups in American Culture
*	*	S.S. 511X	Problems of Contemporary England

	*	S.S. 513X	Social and Intellectual History of the United States
*	*	S.S. 514X	Workshop in Human Relations
*	*	S.S. 514Ax	Advanced Workshop in Human Relations
	*	S.S. 515X	Colonial History of the United States
	*	S.S. 518X	Contemporary European Political Movements
*	*	S.S. 519X	Case Studies in Local Government and Politics
	*	S.S. 520X	Workshop in Methods and Materials in Social Studies in the Elementary School
	*	S.S. 521X	Contemporary Social Problems

OFF-CAMPUS EXTENSION

Inquiries have been received to date (July 1, 1956) concerning off-campus courses which may be offered in the following communities:

Alden	<i>Science in the Elementary Curriculum</i>
East Pembroke	<i>Mathematics in the Elementary Curriculum</i>
Elma	<i>Studio in Design (Theatre)</i>
Gowanda	<i>Diagnostic and Remedial Techniques (Reading)</i>
Hamburg	<i>Contemporary Social Problems</i>
Newfane	<i>Personality Adjustment in the Elementary School</i>
Niagara Falls	<i>The Teaching of Reading</i>
Lockport	<i>Workshop in Audio-Visual Education</i>
West Seneca	<i>Speech Correction for Elementary School Teachers</i>

Teachers who are interested in developing courses in these communities and have not as yet signified their interest should call or write Dr. Robert E. Albright, Director of Extension Education, 1300 Elmwood Ave., Buffalo 22, N. Y., as soon as possible. Courses will be organized if sufficient enrollment can be secured and if faculty schedules can be arranged.

STATE UNIVERSITY OF NEW YORK

LIBERAL ARTS COLLEGE

Harpur College at Endicott

MEDICAL COLLEGES

Downstate Medical Center in New York City

Upstate Medical Center in Syracuse

TEACHERS COLLEGES

College for Teachers at Albany

Teachers College at Brockport

College for Teachers at Buffalo

Teachers College at Cortland

Teachers College at Fredonia

Teachers College at Geneseo

Teachers College at New Paltz

Teachers College at Oneonta

Teachers College at Oswego

Teachers College at Plattsburgh

Teachers College at Potsdam

OTHER PROFESSIONAL COLLEGES

College of Forestry in Syracuse

Maritime College at Fort Schuyler

College of Ceramics at Alfred University

College of Agriculture at Cornell University

College of Home Economics at Cornell University

School of Industrial and Labor Relations at Cornell University

Veterinary College at Cornell University

AGRICULTURAL AND TECHNICAL INSTITUTES

Agricultural and Technical Institute at Alfred

Agricultural and Technical Institute at Canton

Institute of Agriculture and Home Economics at Cobleskill

Agricultural and Technical Institute at Delhi

Agricultural and Technical Institute at Farmingdale

Agricultural and Technical Institute at Morrisville

LOCALLY-SPONSORED TWO-YEAR COLLEGES

(Under the program of the State University of New York)

Auburn Community College at Auburn

Broome County Technical Institute at Binghamton

Erie County Technical Institute at Buffalo

Fashion Institute of Technology at New York City

Hudson Valley Technical Institute at Troy

Jamestown Community College at Jamestown

Mohawk Valley Technical Institute at Utica

New York City Community College of Applied Arts and Sciences

Orange County Community College at Middletown

Staten Island Community College at Staten Island

Westchester Community College at White Plains